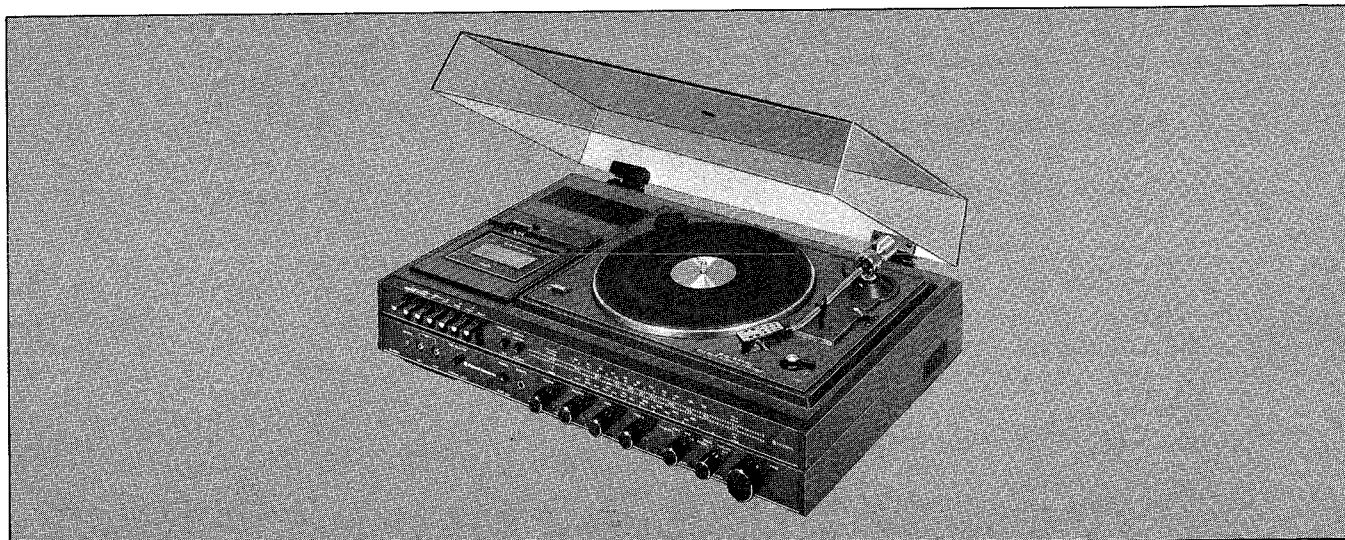


Service Manual

**FM/AM/FM STEREO RADIO AND RECORD
PLAYER WITH CASSETTE DECK**

**Compact Stereo
SG-1080L**



Specifications

AMPLIFIER SECTION

Power Output	MPO 2 × 18W
	RMS 12W/Channel (4 ohms)
	8W/Channel (8 ohms)
	RMS 10W/Channel (4 ohms THD 1%)
	7W/Channel (8 ohms THD 1%)
Frequency Response	25 Hz ~ 50 kHz, -3dB
Input Sensitivity and Impedance:	
AUX	100 mV, 100k ohms
Tape	600 mV, 50k ohms
REC OUT and Impedance....	0.1 ~ 2 mV/k ohms } DIN
Tone Control:	
Bass	+13 dB at 100 Hz
Treble	+8 dB
	-14 dB at 10 kHz

FM TUNER SECTION

Frequency Range	87.5 MHz ~ 108 MHz (3.43 ~ 2.78 m)
Intermediate Frequency (IF) ..	10.7 MHz
Sensitivity	2.5 μV (40 kHz deviation S/N 30 dB)
Frequency Response	25 Hz ~ 15 kHz, -3 dB
Harmonic Distortion	0.4%, 1 kHz (mono) 30% mod.
Signal to Noise Ratio	62 dB (mono) (100% mod.)
Stereo Separation	35 dB
Image Ratio	43 dB at 98 MHz
Antenna Terminal	300 ohms Balanced

AM TUNER SECTION

Frequency Range	MW: 525 kHz ~ 1605 kHz (571 ~ 187 m)
	LW: 145 kHz ~ 285 kHz (2070 ~ 1050 m)
Intermediate Frequency (IF) ..	455 kHz
Sensitivity	MW: 130 μV/m for 500 mW
	LW: 350 μV/m for 50 mW
Antenna	MW: built-in ferrite antenna
	LW: built-in ferrite antenna

RECORD PLAYER SECTION

Player System	Auto Return, Belt-Drive
Turntable	25 cm (10")
Turntable Speeds	33-1/3 and 45 r.p.m., 2-speeds
Deviation of	+1.5% } DIN
Turntable-speeds	-1.0% }
Phonomotor	Frequency Generated Servo DC Motor
Cartridge	Moving Magnet (EPC78SMAD)
Stylus	Diamond (EPS34STSD)
Frequency Response	20 Hz ~ 20 kHz (DIN)
Wow and Flutter	0.12% (WRMS)

TAPE DECK SECTION

Deck System	Auto-Stop Cassette System
Track System	2 CH 4-Track
Recording System	AC Bias 50 kHz
Erasing System	AC Erase
Tape Speed	4.75 cm/sec (1-7/8 i.p.s.)
Frequency Response	60 Hz ~ 10 kHz

SPEAKER

Speaker	20 cm Woofer and 5 cm Tweeter
Input Impedance	4 ~ 16 ohms

POWER SUPPLY

AC 100 ~ 115V, 115 ~ 130V,
200 ~ 225V, 225 ~ 250V, 50/60 Hz

POWER CONSUMPTION 60W

DIMENSIONS (W × H × D)

Center Unit	571 mm × 185 mm × 393 mm
	(22-31/64") × (7-9/32") × (15-15/32")
Speaker System	296 mm × 451 mm × 166 mm
	(11-31/64") × (17-3/4") × (6-5/16")

WEIGHT

Center Unit	9.4 kg. (20 lbs. 13 oz.)
Speaker System	3.6 kg. (7 lb. 1 oz.) each

* Specifications are subject to change without notice for further improvement.



National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

DISASSEMBLY INSTRUCTIONS

■ To Remove Record Player

1. Remove two (2) turntable transit screws Nos. ②③ ~ ②④, as shown in Fig. 5.
2. When removing turntable, be sure to take off the belt from the capstan, as shown in Fig. 5.
3. Remove a player board mounting screw No. ①, as shown in Fig. 5.
4. Lift player from the back slightly and slide it toward rear of cabinet.
5. To reassemble, reverse above procedure.

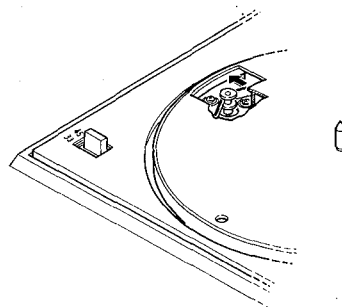


FIG. 1

■ To Replace Components

1. Remove record player.
2. Remove cassette lid by sliding while holding the rear side in the direction of arrow, as shown in Fig. 2.
3. Remove two (2) cassette panel mounting screws Nos. ② ~ ③, as shown in Fig. 5.
4. Remove three (3) bottom board mounting screws Nos. ④ ~ ⑥, as shown in Fig. 5.
5. Unsolder faulty components and replace it with new one.
* Most components can be replaced in this manner. However, when it becomes necessary for you to remove the chassis, observe the following instructions:
6. Remove seven knobs on the front panel.
7. Remove ten (10) cabinet mounting screws Nos. ⑦ ~ ①⑥, as shown in Fig. 5.
8. Lift cabinet slightly back and slide it toward front.
9. To reassemble, reverse above procedure.

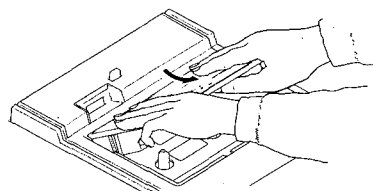


FIG. 2

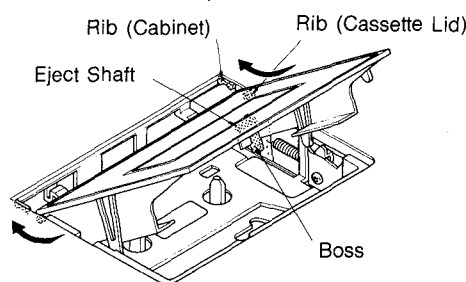


FIG. 3

CAUTION

■ To Reassemble Cabinet;

- * Incline about 20 degrees. Fit seven cassette buttons and two MIC jacks to their respective holes on the front panel, and push cabinet in the direction of arrow, as shown in Fig. 4.
- * Make sure cabinet does not touch the pinch roller, eject lever and two heads on the tape deck.

■ To Reassemble Cassette Lid;

- * Set boss of cassette lid just in front of eject shaft. Incline cassette lid about 45 degrees and it making sure its rib will be underneath the rib on the cassette cabinet and push it toward the rear side, as shown in Fig. 3.

■ To Remove Cassette Deck

1. Refer to above instruction 1 to 4.
2. Remove six (6) cassette deck mounting screws Nos. ①⑦ ~ ②②, as shown in Fig. 5.
3. To remove cassette circuit board, remove four (4) screws from bottom side.
4. To reassemble, reverse above procedure.

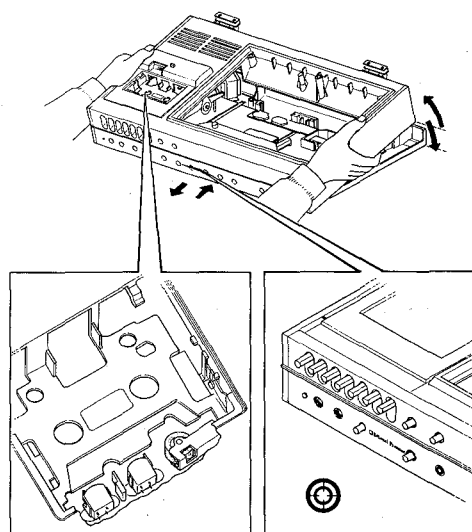
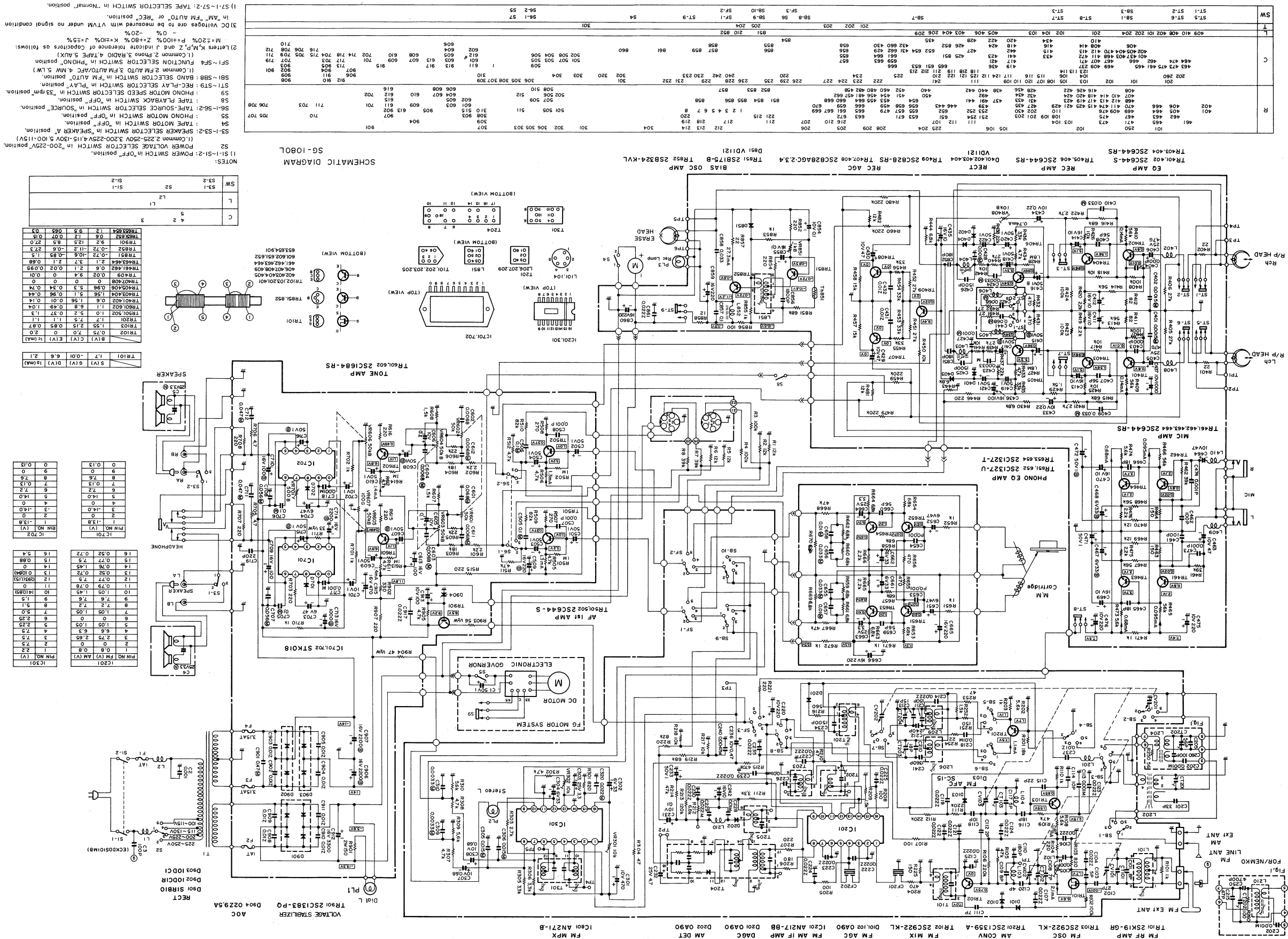


FIG. 4

5



ALIGNMENT INSTRUCTIONS (AUDIO)–3

Control Setting and Procedure:

Attenuator..... Connect Audio Generator (To AUX jack)

Volume Control Maximum

STEP	ALIGNMENT	INDICATOR
------	-----------	-----------

1	Af gain balance alignment	AF gain balance alignment
2	AFM or scope to left and right speaker jacks.	AFM or scope to left and right speaker jacks.

BAND	FREQUENCY	"DISTANCE FROM "START POINT"
LW	145 kHz 285 kHz	12.2 mm 162.9 mm
MW	550 kHz 1500 kHz	17.2 mm 162 mm
SW	5.9 MHz 18.0 MHz	6.8 mm 169.7 mm
FM	90 MHz 106 MHz	23 mm 153.3 mm

1. Volume Control Maximum (AM-IF and RF, FM-RF);

To accurately align to the proper frequencies on the dial, refer to Table at right and mark the edge of the dial accordingly, using the "Start Point" mark on the dial as a reference point.

1	(LW)	3	(LW)	4	(MW)	5	(MW)
Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	
455 KHz with 400 Hz 30% Mod.	455 KHz with 400 Hz 30% Mod.	455 KHz with 400 Hz 30% Mod.	285 KHz (162.9 mm)	550 KHz (17.2 mm)	455 KHz with 400 Hz 30% Mod.	455 KHz with 400 Hz 30% Mod.	
Point of non-interference.	145 KHz (12.2 mm)	across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	
600 KHz (on/about 12.2 mm)	145 KHz (12.2 mm)	across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	Output meter across speaker jack (L).	
T201 (AM 1st IFT)	T202 (AM 2nd IFT)	T203 (AM 3rd IFT)	T205 (AM 4th IFT)	T201 (AM 1st IFT)	T202 (AM 2nd IFT)	T203 (AM 3rd IFT)	
Adjust for maximum output.	Adjust for maximum output by sliding coil core.	Adjust for maximum output.	Adjust for maximum output.	Adjust for maximum output.	Adjust for maximum output by sliding coil core.	Adjust for maximum output.	
Repeat steps (4) and (5).	Repeat steps (2) and (3).	Repeat steps (2) and (3).	Repeat steps (2) and (3).	Repeat steps (2) and (3).	Repeat steps (2) and (3).	Repeat steps (4) and (5).	
CT203 (MW OSC Trimmer)	CT204 (LW OSC Trimmer)	CT202 (LW OSC Trimmer)	CT202 (LW OSC Trimmer)	CT202 (LW OSC Trimmer)	CT203 (MW OSC Trimmer)	CT203 (MW OSC Trimmer)	
Adjust for maximum output.	Adjust for maximum output by sliding coil core.	Adjust for maximum output.	Adjust for maximum output.	Adjust for maximum output.	Adjust for maximum output by sliding coil core.	Adjust for maximum output.	

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Control Setting and Procedure:

Attenuator..... Connect Audio Generator (To AUX jack)

Volume Control Maximum

STEP	ALIGNMENT	INDICATOR
------	-----------	-----------

1	Af gain balance alignment	AFM or scope to left and right speaker jacks.
---	---------------------------	---

FM-IF and DETECTOR ALIGNMENT						
1	High side through 0.001 mfd to point TP1.	10.7 MHz SWP.) (400 kHz	Point of non-interference (on/about 98 MHz)	Connect vert amp. TP2. of scope to point	T101 (FM 1st IFT) (FM Disc. IFT)	Adjust for maximum amplitude and symmetrical curve (Refer to Fig. 7-a)
2	High side through 0.001 mfd to point TP1.	10.7 MHz SWP.) (400 kHz	Point of non-interference (on/about 98 MHz)	Connect vert. amp. TP3. of scope to point	T204, Core 2 (FM Disc. IFT)	Adjust for maximum amplitude and proper linearity between ± 100 kHz markers. (Refer to Fig. 7-b)
Note: Before aligning step 1, turn the core of T204 fully counterclockwise.						
FM-RF ALIGNMENT						
1	Connect to EXT. FM antenna terminal through 30% Mod with 400 Hz (Refer to Fig. 8)	90 MHz (23 mm)	Output meter across speaker jack (L.) (Imp. 4 Ω)	L104 (FM OSC Coil) L101 (FM ANT Coil) L102 (FM DET Coil)	Adjust for maximum output.	
2	Connect to EXT. FM antenna terminal through 30% Mod. with 400 Hz (Refer to Fig. 8)	106 MHz (153.3 mm)	Output meter across speaker jack (L.) (Imp. 4 Ω)	CT103 (FM OSC trimmer) CT101 (FM ANT trimmer) CT102 (FM DET trimmer)	Adjust for maximum output. Repeat steps (1) and (2).	

Notes: 1. As three output readings will be present, adjustments must be made at center frequency.
2. To correct drift at the FM dial scale (87.5 or 108 MHz), adjust coil L104 and trimmer CT103 with each other.

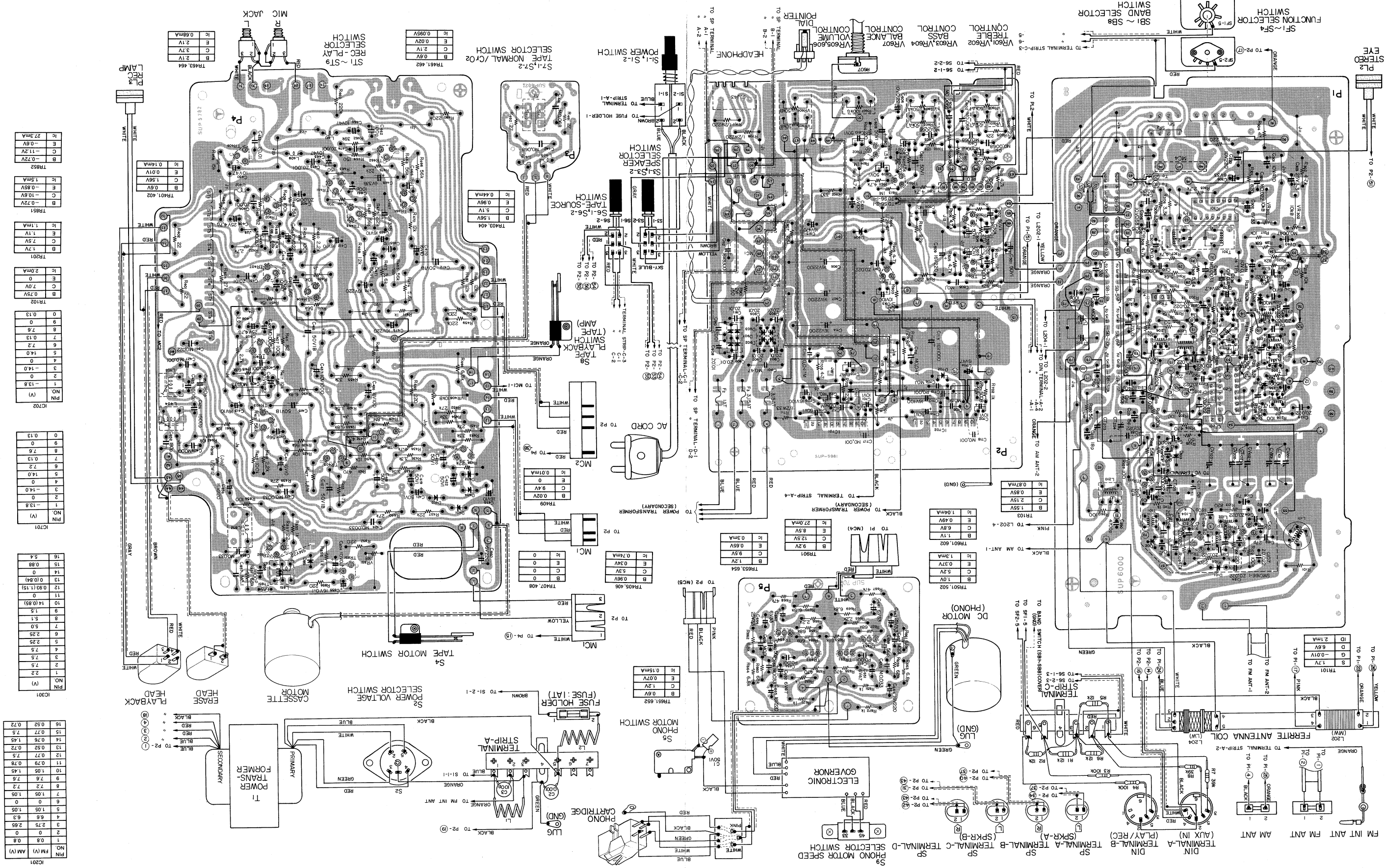
Control Setting and Procedure:

1. Stereo Modulator:	Connect Stereo Modulator to EXT. Mod. terminal of signal generator
2. Signal Generator:	Modulation Rate of 19 kHz Pilot Signal 10% Output Level 30 dB Frequency Approx. 98 MHz
3. Tuner:	Volume Control Audible level of speaker sound Tuning Audible level of speaker sound

Control Setting and Procedure:			
1. Signal Generator: 2. Tuner (Balance Control): Adjust balance control so that output level from both channels becomes equal. Output Level..... 60 dB Modulation Rate of Right and Left Signal..... 27% Modulation Rate of 19 kHz Pilot Signal..... 10% Treble Control..... Minimum			
EQUIPMENT CONNECTION			
ADJUST		REMARKS	
SIGNAL GENERATOR VTVM OSCILLOSCOPE		Adjust T301 and VR301 for minimum indication on VTVM from the left side output when the right side of stereo modulator is modulated. Adjust T301 and VR301 in the same way for the right side. Adjust for best balance between "L to R" and "R to L" separation.	
Note: Before separation alignment, disconnect lead between TP4 and Oscilloscope.			
STEREO EYE LEVEL CHECK AND ALIGNMENT			
Connect to EXT. FM antenna terminal through dummy antenna. (Refer to Fig. 8)	Connect across jack. (Left side) (Imp. 4Ω)	Connect vertical amp. input of scope VR301 (MPX Coil) T301 (Separation Control)	Adjust T301 and VR301 for minimum indication on VTVM from the left side output when the right side of stereo modulator is modulated. Adjust T301 and VR301 in the same way for the right side. Adjust for best balance between "L to R" and "R to L" separation.
Connect across speaker jack. (Left side) (Imp. 4Ω)	Connect to VTVM terminal of (Stereo Eye Level Adjust)	VR302	Stereo eye should light up when about 23 dB is applied from signal generator. If not, adjust VR302 to light up.

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WIRING DIAGRAM OF MODEL SG-1080L



* This diagram might be modified without notice for further development of technology.

ALIGNMENT INSTRUCTIONS (TAPE DECK)

■ ALIGNMENT POINT

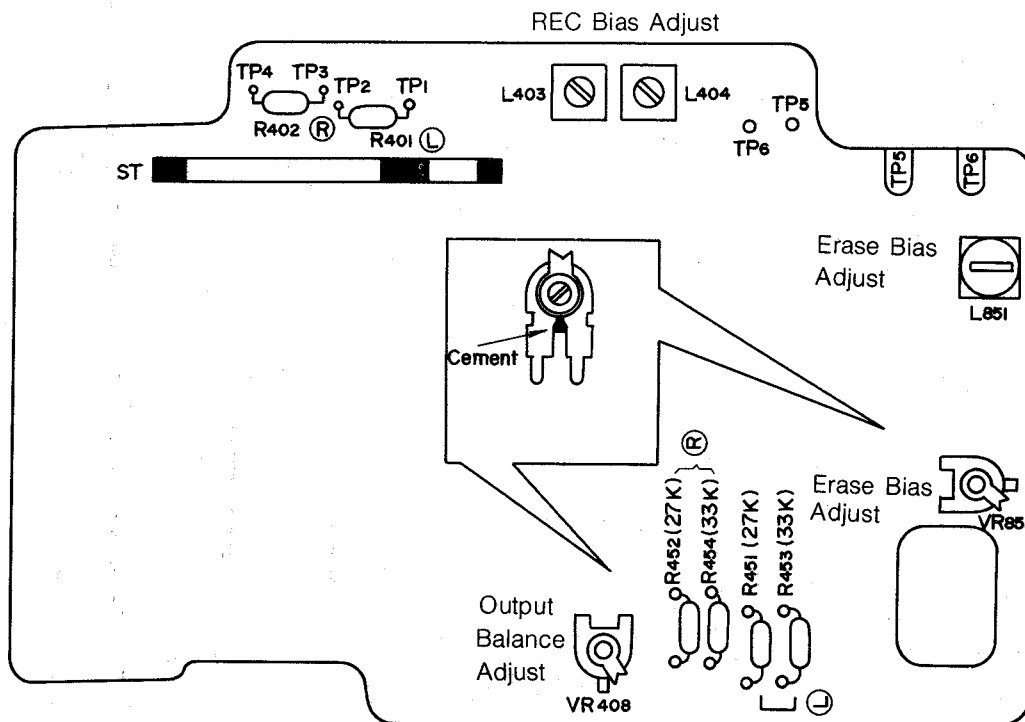


FIG. 10

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

Play back a Standard Alignment Tape and turn head adjustment screw for maximum loudness.

Test Tape: VTT-625 (6.3 kHz) or VTT-671

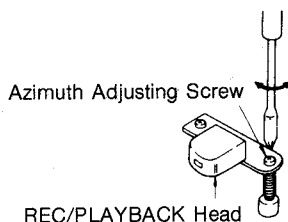


FIG. 11

■ BIAS VOLTAGE ALIGNMENT

STEP	CIRCUIT	VTVM CONNECTION	ADJUSTMENT	REMARKS
1	Output Balance	Speaker Terminals	VR408 (Output Balance Adjust)	Play back standard tape VTT671 and adjust VR408 by using 1 kHz so that right side output equals left.
2	Erase Bias	TP5, TP6	L851 (Erase Bias Adjust) VR851 (Erase Bias Adjust)	Adjust L851 for maximum indication of VTVM. Adjust VR851 for $9.0 \pm 0.2V$ reading on VTVM.
3	Record Bias	TP1, TP2, TP3, TP4	L403 (L) L404 (R) (Record Bias Adjust)	Adjust L403 (L404) for $9.9 \pm 0.2 mV$ reading on VTVMs. The core of L403 (L404) should be turned to lower.
4	Erase Bias Record Bias	TP5, 6 TP1, 2, 3, 4	L851, VR851 L403, L404	Repeat steps (2) and (3) and make sure that each outputs are in compliance with the standards.

Note: Connect TP2, TP4 and TP6 to ground (earth) on VTVM.

MECHANICAL ADJUSTMENT OF TAPE DECK

PRESSURE ROLLER ADJUSTMENT

1. Switch set to PLAY. (Do not insert cassette.)
2. Hook spring gauge to arm of pressure rollers, as shown in Fig. 12.
3. Pull pressure roller away from the capstan in the direction of arrow 1 with spring gauge and slowly permit the pressure roller to return toward capstan in the direction of arrow 2.
4. Measure tension at time when pressure roller makes contact with capstan (or when pressure roller starts rotating).
5. The standard tension of pressure roller should be 250 ~ 380 g.
6. If pressure is not within these limits;
Clean the rubber roller and capstan with a soft cloth moistened with alcohol or replace pressure spring.

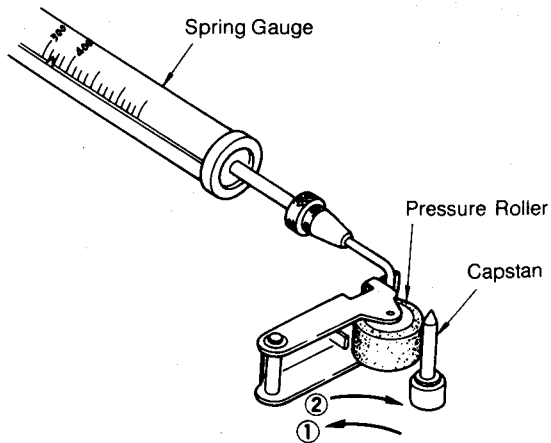


FIG. 12

TAKE-UP TORQUE ADJUSTMENT

* Test Tape: SRK-CT (Take-up Torque Meter)

1. Insert test tape.
2. Rewind the tape to its starting point.
3. Switch set to PLAY.
4. Read "►" mark of indicator on take-up side, as shown in Fig. 13.
5. Repeat PLAY-STOP several times and read the average tension.
6. The standard take-up tension should be 30 ~ 70 g.cm.

If take-up tension is not within these limits;

- a) Clean main belt, take-up reel and all parts which contact them with a cotton swab moistened with alcohol, and/or
- b) Switch set to "OFF", remove main belt and make sure that take-up reel and take-up clutch are rotating smoothly.
- c) Change take-up clutch tension by turning the friction spring under reel table, as shown in Fig. 14 and/or
- d) Replace take-up clutch.

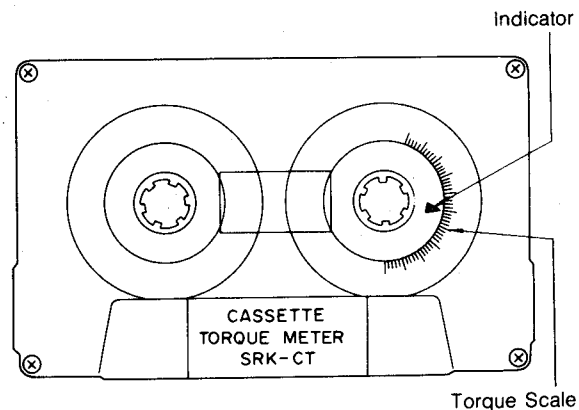


FIG. 13

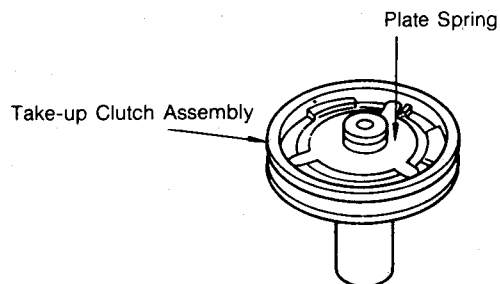


FIG. 14

EXPLODED VIEW OF CASSETTE TAPE DECK

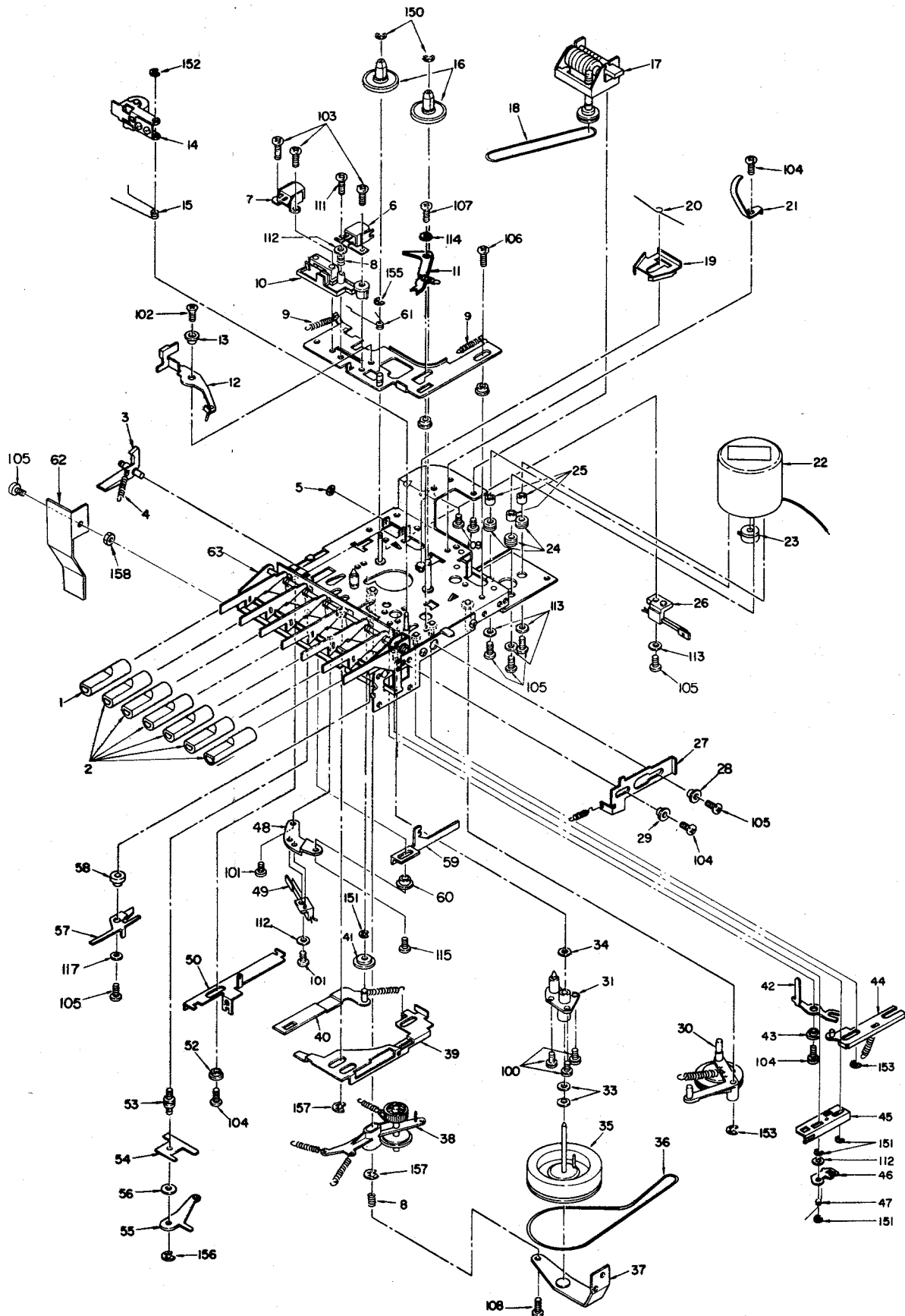


FIG. 15

SERVICING THE RECORD PLAYER

■ **To Replace Cartridge (Refer to Fig. 16)**

1. Remove cartridge from headshell by removing two screws and disconnecting four leads from cartridge, as shown in Fig. 16.
2. Using two nuts attached, mount a new cartridge onto headshell so that the cartridge is perpendicular to the disc surface.
3. Connect four leads of identical colors, as shown in Fig. 16.

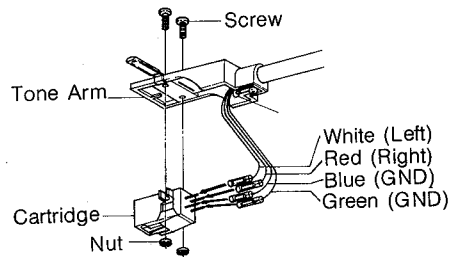


FIG. 16

■ **To Replace Stylus (Refer to Fig. 17)**

1. Lift pickup arm to a position that will make the stylus accessible.
2. Gently pull out worn stylus and replace it with a new one, as shown in Fig. 17.

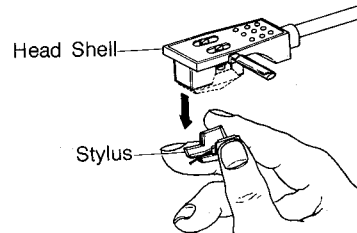


FIG. 17

■ **To Adjust Motor Speed (Refer to Fig. 18)**

The speed will be too fast, if the strobodots seem to be "running ahead".

In this case, remove turntable and turn VR1 or VR2 from on the motor board, as shown in Fig. 18.

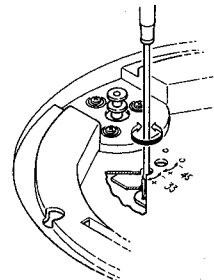


FIG. 18

Notes:

When resoldering leads A and B to circuit board, make sure to solder them correctly.

If red and black leads are soldered invertly and/or external DC power supply is connected to points $\oplus$ and $\ominus$ on the circuit board incorrectly, the IC would be faulted.

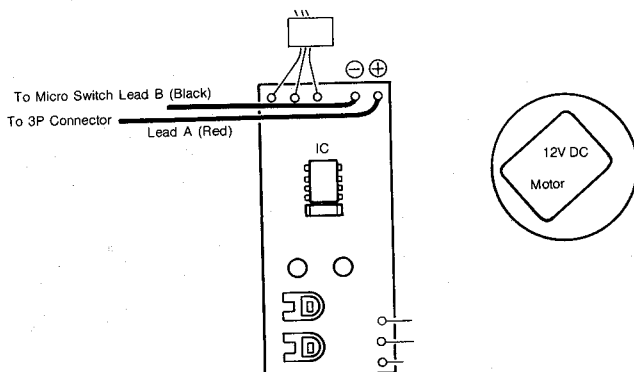


FIG. 19

Schematic Diagram of Phonomotor Circuit

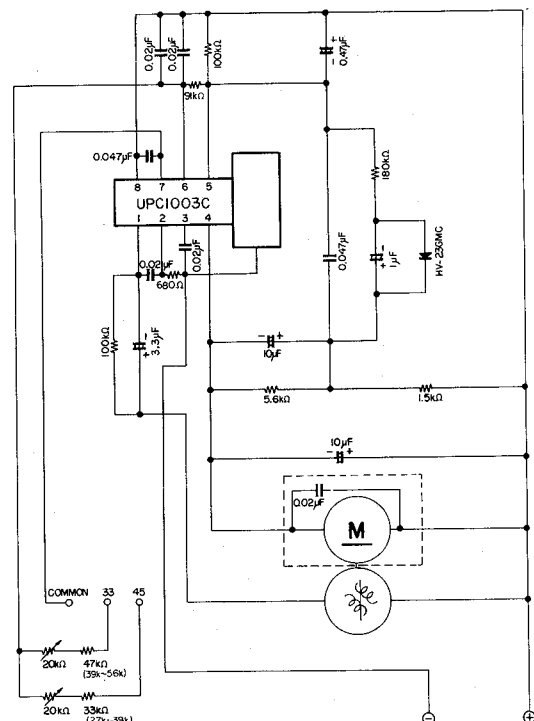


FIG. 20

EXPLODED VIEW OF RECORD PLAYER

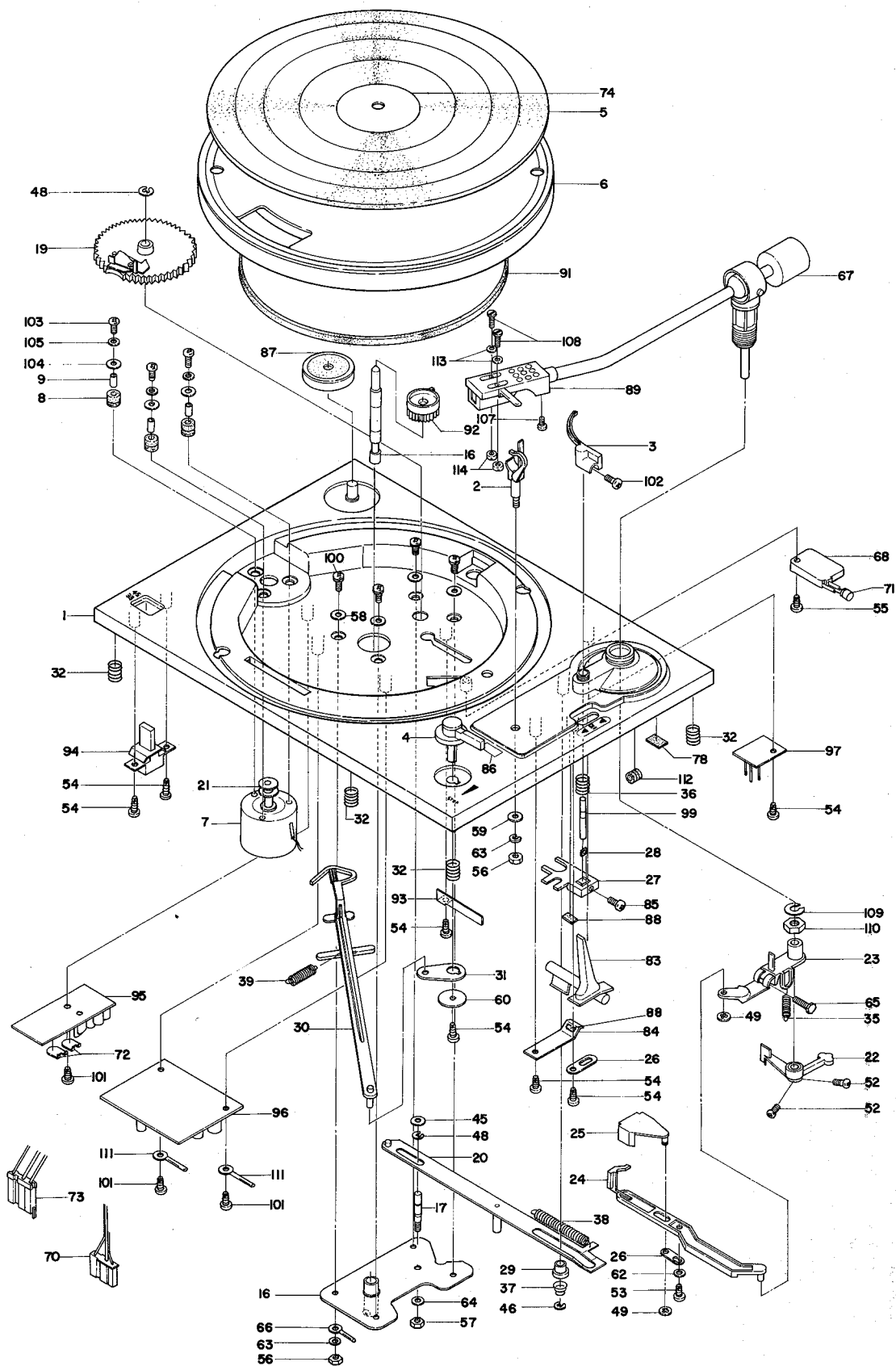


FIG. 21

REPLACEMENT PARTS LIST

- NOTES:** 1. Part numbers are indicated on most mechanical parts.
 2. **SAFETY** indicates that only parts specified by the manufacturer be used for replacement in critical circuits.
 3. A ~ C rank.
 A rank parts will cover 80% of repair needs.
 A + B rank parts will cover 95% of repair needs.
 C rank parts are less necessary.

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
TRANSISTORS							
TR101	2SK19	Transistor, FM RF Amplifier (FET)	1	A			
TR102,103	2SC922	Transistor, FM Mixer and Oscillator	2	A			
TR201	2SC1359	Transistor, AM Converter	1	A			
TR401~404	2SC644	Transistor, Equalizer Amplifier	4	A			
TR405,406	2SC644	Transistor, REC Amplifier	2	A			
TR407,408	2SC828	Transistor, REC AGC	2	A			
TR409	2SC828	Transistor, REC AGC	1	A			
TR461~464	2SC644	Transistor, MIC Amplifier	4	A			
TR501,502	2SC644	Transistor, 1st AF Amplifier	2	A			
TR601,602	2SC1884	Transistor, Tone Amplifier	2	A			
TR651~654	2SC1327	Transistor, Phono Equalizer Amplifier	4	A			
TR851	2SB175	Transistor, Bias Oscillator	1	A			
TR852	2SB324	Transistor, Bias Amplifier	1	A			
TR901	2SC1383	Transistor, Voltage Stabilizer	1	A			
INTEGRATED CIRCUITS							
IC201	AN217	IC, IF Amplifier	1	A			
IC301	AN271	IC, FM MPX Amplifier	1	A			
IC701,702	STK0181	IC, Power Output	2	A			
DIODES							
D101,102	OA90	Diode, FM AGC	2	A			
D103	SC-15	Diode, FM AFC	1	A			
D201,202	OA90	Diode, D. AGC and AM Detector	2	A			
D401~404	VD1121	Diode, Rectifier	4	A			
D701,702	VD1121	Diode, Rectifier	2	A			
D851	VD1121	Diode, Rectifier	1	A			
D901	S1RB10	Diode, Rectifier	1	A			
D902	10DC1R	Diode, Rectifier	1	A			
D903	10DC1	Diode, Rectifier	1	A			
D904	02Z9.5A	Diode, Zener, AOC	1	A			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
THERMISTOR							
TH851	RRT103	Thermistor, Temperature Compensator	1	B			
LAMPS AND FUSES							
PL2,3	XAMR34X500-1	Pilot Lamp, Stereo and REC eye	2	A			
F1,2	XBAS2A1004	Fuse, 1AT SAFETY	2	A			
F3,4	XBA2C31TRO	Fuse, 3.15AT SAFETY	2	A			
COILS AND TRANSFORMERS							
L1,2	SLQY35S-2S	Coil, Radio Frequency	2	B			
L101	SLA4P8	Antenna Coil, FM	1	A			
L102	SLD4Y10	Detector Coil, FM	1	A			
L103	SLQY11G-2	Coil, Radio Frequency	1	B			
L104	SLO4P6	Oscillator Coil, FM	1	A			
L201	RLQY25S-5	Coil, Radio Frequency	1	B			
L202,204	SLF6G14	Ferrite Antenna Coil, LW and MW	1	A			
L206	RLO2B83M	Oscillator Coil, MW	1	A			
L209	SLO1C8	Oscillator Coil, LW	1	A			
L210	SLQU222-2Y	Coil, Choke	1	A			
L402,408~410	SLQY11G-2	Coil, Radio Frequency	4	B			
L403,404	RLQC542-K	Coil, Bias Trap	2	A			
L405,406	SLQU222-2Y	Coil, Choke	2	A			
L851	SLO9Z10-K	Bias Oscillator Coil	1	A			
T101	RLI4M101	IFT, FM 1st	1	A			
T201	SLI2B108	IFT, AM 1st	1	A			
T202	RLI2M201	IFT, AM 2nd	1	A			
T203	RLI2M202	IFT, AM 3rd	1	A			
T204	EULBFD108R	IFT, FM Discriminator	1	A			
T205	RLI2M401	IFT, AM 4th	1	A			
T301	SLM5Z2-K	MPX Coil, FM	1	A			
T1	SLT5M48-W	Power Transformer SAFETY	1	○A			
CF201,202	RVFCF10M12C	Ceramic Filter, FM	2	A			
RESISTORS							
R1	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R2	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R3	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R4	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R5	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R6	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			

REPLACEMENT PARTS LIST

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SG-1080L

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
R7	ERD25TJ393	39k ohm 1/4W ±5% Carbon	1	C			
R8	ERD25TJ393	39k ohm 1/4W ±5% Carbon	1	C			
R101	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R102	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R103	ERD25TJ821	820 ohm 1/4W ±5% Carbon	1	C			
R104	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R105	ERD25TJ473	47k ohm 1/4W ±5% Carbon	1	C			
R106	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R107	ERD25TJ101	100 ohm 1/4W ±5% Carbon	1	C			
R108	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			
R109	ERD25TJ473	47k ohm 1/4W ±5% Carbon	1	C			
R110	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R111	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R112	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R201	ERD25TJ183	18k ohm 1/4W ±5% Carbon	1	C			
R202	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			
R203	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R204	ERD25TJ471	470 ohm 1/4W ±5% Carbon	1	C			
R205	ERD25TJ101	100 ohm 1/4W ±5% Carbon	1	C			
R206	ERD25TJ181	180 ohm 1/4W ±5% Carbon	1	C			
R207	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R208	ERD25TJ101	100 ohm 1/4W ±5% Carbon	1	C			
R209	ERD25TJ152	1.5k ohm 1/4W ±5% Carbon	1	C			
R210	ERD25TJ470	47 ohm 1/4W ±5% Carbon	1	C			
R211	ERD25TJ332	3.3k ohm 1/4W ±5% Carbon	1	C			
R212	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R213	ERD25TJ124	120k ohm 1/4W ±5% Carbon	1	C			
R214	ERD25TJ473	47k ohm 1/4W ±5% Carbon	1	C			
R215	ERD25TJ474	470k ohm 1/4W ±5% Carbon	1	C			
R216	ERD25TJ561	560 ohm 1/4W ±5% Carbon	1	C			
R217	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R218	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R219	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R220	ERD25TJ823	82k ohm 1/4W ±5% Carbon	1	C			
R221	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R250	ERD25TJ560	56 ohm 1/4W ±5% Carbon	1	C			
R251	ERD25TJ151	150 ohm 1/4W ±5% Carbon	1	C			
R252	ERD25TJ152	1.5k ohm 1/4W ±5% Carbon	1	C			
R253	ERD25TJ470	47 ohm 1/4W ±5% Carbon	1	C			
R254	ERD25TJ220	22 ohm 1/4W ±5% Carbon	1	C			
R255	ERD25TJ151	150 ohm 1/4W ±5% Carbon	1	C			
R301	ERD25TJ821	820 ohm 1/4W ±5% Carbon	1	C			
R302	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R303	ERD25TJ272	2.7k ohm 1/4W ±5% Carbon	1	C			
R304	ERD25TJ470	47 ohm 1/4W ±5% Carbon	1	C			
R305	ERD25TJ332	3.3k ohm 1/4W ±5% Carbon	1	C			
R306	ERD25TJ332	3.3k ohm 1/4W ±5% Carbon	1	C			
R307	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R308	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R309	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
R310	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			
R401	ERD25TJ220	22 ohm 1/4W ±5% Carbon	1	C			
R402	ERD25TJ220	22 ohm 1/4W ±5% Carbon	1	C			
R405	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R406	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R407	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R408	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R409	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R410	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R411	ERD25TJ820	82 ohm 1/4W ±5% Carbon	1	C			
R412	ERD25TJ820	82 ohm 1/4W ±5% Carbon	1	C			
R413	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R414	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R415	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R416	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R417	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R418	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R419	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R420	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R421	ERD25TJ272	2.7k ohm 1/4W ±5% Carbon	1	C			
R422	ERD25TJ272	2.7k ohm 1/4W ±5% Carbon	1	C			
R423	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R424	ERD25TJ104	100k ohm 1/4W ±5% Carbon	1	C			
R425	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R426	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R427	ERC12ZGK185	1.8M ohm 1/2W ±10% Solid	1	C			
R428	ERC12ZGK185	1.8M ohm 1/2W ±10% Solid	1	C			
R429	ERD25TJ152	1.5k ohm 1/4W ±5% Carbon	1	C			
R430	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R431	ERD25TJ471	470 ohm 1/4W ±5% Carbon	1	C			
R432	ERD25TJ471	470 ohm 1/4W ±5% Carbon	1	C			
R433	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R434	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R435	ERD25TJ332	3.3k ohm 1/4W ±5% Carbon	1	C			
R436	ERD25TJ332	3.3k ohm 1/4W ±5% Carbon	1	C			
R437	ERD25TJ223	22k ohm 1/4W ±5% Carbon	1	C			
R438	ERD25TJ223	22k ohm 1/4W ±5% Carbon	1	C			
R439	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R440	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R441	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R442	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R443	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R444	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R446	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R450	ERD25TJ103	10k ohm 1/4W ±5% Carbon	1	C			
R451	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R452	ERD25TJ273	27k ohm 1/4W ±5% Carbon	1	C			
R453	ERD25TJ333	33k ohm 1/4W ±5% Carbon	1	C			
R454	ERD25TJ333	33k ohm 1/4W ±5% Carbon	1	C			
R455	ERD25TJ333	33k ohm 1/4W ±5% Carbon	1	C			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
R456	ERD25TJ333	33k ohm 1/4W ±5% Carbon	1	C			
R457	ERD25TJ153	15k ohm 1/4W ±5% Carbon	1	C			
R458	ERD25TJ153	15k ohm 1/4W ±5% Carbon	1	C			
R459	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R460	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R461	ERD25TJ393	39k ohm 1/4W ±5% Carbon	1	C			
R462	ERD25TJ393	39k ohm 1/4W ±5% Carbon	1	C			
R463	ERD25TJ151	150 ohm 1/4W ±5% Carbon	1	C			
R464	ERD25TJ151	150 ohm 1/4W ±5% Carbon	1	C			
R465	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R466	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R467	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R468	ERD25TJ563	56k ohm 1/4W ±5% Carbon	1	C			
R469	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R470	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R471	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R473	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			
R474	ERD25TJ562	5.6k ohm 1/4W ±5% Carbon	1	C			
R475	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R476	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R479	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R480	ERD25TJ224	220k ohm 1/4W ±5% Carbon	1	C			
R481	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R482	ERD25TJ123	12k ohm 1/4W ±5% Carbon	1	C			
R491	ERD25TJ270	27 ohm 1/4W ±5% Carbon	1	C			
R492	ERD25TJ270	27 ohm 1/4W ±5% Carbon	1	C			
R501	ERD25TJ105	1M ohm 1/4W ±5% Carbon	1	C			
R502	ERD25TJ105	1M ohm 1/4W ±5% Carbon	1	C			
R505	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R506	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R507	ERD25TJ271	270 ohm 1/4W ±5% Carbon	1	C			
R508	ERD25TJ271	270 ohm 1/4W ±5% Carbon	1	C			
R509	ERD25TJ823	82k ohm 1/4W ±5% Carbon	1	C			
R510	ERD25TJ823	82k ohm 1/4W ±5% Carbon	1	C			
R511	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R512	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R515	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R601	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R602	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R603	ERD25TJ183	18k ohm 1/4W ±5% Carbon	1	C			
R604	ERD25TJ183	18k ohm 1/4W ±5% Carbon	1	C			
R605	ERD25TJ223	22k ohm 1/4W ±5% Carbon	1	C			
R606	ERD25TJ223	22k ohm 1/4W ±5% Carbon	1	C			
R607	ERD25TJ152	1.5k ohm 1/4W ±5% Carbon	1	C			
R608	ERD25TJ152	1.5k ohm 1/4W ±5% Carbon	1	C			
R611	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R612	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon	1	C			
R613	ERD25TJ105	1M ohm 1/4W ±5% Carbon	1	C			
R614	ERD25TJ105	1M ohm 1/4W ±5% Carbon	1	C			
R615	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
R616	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R651	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R652	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R653	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R654	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R655	ERD25TJ471	470 ohm 1/4W ±5% Carbon	1	C			
R656	ERD25TJ471	470 ohm 1/4W ±5% Carbon	1	C			
R657	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R658	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R659	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R660	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R661	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R662	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R663	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R664	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R665	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R666	ERD25TJ222	2.2k ohm 1/4W ±5% Carbon	1	C			
R667	ERD25TJ473	47k ohm 1/4W ±5% Carbon	1	C			
R668	ERD25TJ473	47k ohm 1/4W ±5% Carbon	1	C			
R669	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R670	ERD25TJ682	6.8k ohm 1/4W ±5% Carbon	1	C			
R671	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R672	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R701	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R702	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R703	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R705	ERD50TJ4R7	4.7 ohm 1/2W ±5% Carbon	1	C			
R706	ERD50TJ4R7	4.7 ohm 1/2W ±5% Carbon	1	C			
R707	ERD50TJ221	220 ohm 1/2W ±5% Carbon	1	C			
R708	ERD50TJ221	220 ohm 1/2W ±5% Carbon	1	C			
R710	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R711	ERD50TJ330	33 ohm 1/2W ±5% Carbon SAFETY	1	C			
R851	ERD25TJ683	68k ohm 1/4W ±5% Carbon	1	C			
R852	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R853	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R854	ERD25TJ221	220 ohm 1/4W ±5% Carbon	1	C			
R855	ERD25TJ102	1k ohm 1/4W ±5% Carbon	1	C			
R856	ERD25TJ101	100 ohm 1/4W ±5% Carbon	1	C			
R857	ERD25TJ220	22 ohm 1/4W ±5% Carbon	1	C			
R858	ERD50TJ120	12 ohm 1/2W ±5% Carbon	1	C			
R901	ERG2ANJ151	150 ohm 2W ±5% Metal Film SAFETY	1	C			
R902	ERD25TJ331	330 ohm 1/4W ±5% Carbon	1	C			
R903	ERD50TJ560	56 ohm 1/2W ±5% Carbon SAFETY	1	C			
R904	ERD50TJ470	47 ohm 1/2W ±5% Carbon SAFETY	1	C			
R905	ERD25TJ472	4.7k ohm 1/4W ±5% Carbon SAFETY	1	C			
R907	ERD25TJ221	220 ohm 1/4W ±5% Carbon SAFETY	1	C			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
CAPACITORS							
C2	ECKDDS102MD	0.001mfd 250W ±20% Ceramic SAFETY	1	B			
C3	ECKDDS101MB	100pF 250W ±20% Ceramic SAFETY	1	B			
C101	ECCD1H080D	8pF 50WV ±0.5pF Ceramic	1	C			
C102	ECCD1H270K	27pF 50W ±10% Ceramic	1	C			
C103	ECCD1H050C	5pF 50WV ±0.25pF Ceramic	1	C			
C104	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C105	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C106	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C107	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C108	ECCD1H070C	7pF 50WV +80, -20% Ceramic	1	C			
C109	ECCD1H080D	8pF 50WV +80, -20% Ceramic	1	C			
C110	ECCD1H181K	180pF 50WV +80, -20% Ceramic	1	C			
C111	ECCD1H070C	7pF 50WV ±0.25pF Ceramic	1	C			
C112	ECCD1H020C	2pF 50WV ±0.25pF Ceramic	1	C			
C113	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C114	ECCD1H100F	10pF 50WV ±1pF Ceramic	1	C			
C115	ECCD1H220K	22pF 50WV ±10% Ceramic	1	C			
C116	ECCD1H180K	18pF 50WV ±10% Ceramic	1	C			
C117	ECCD1H050C	5pF 50WV ±0.25pF Ceramic	1	C			
C118	ECCD1H100F	10pF 50WV ±1pF Ceramic	1	C			
C119	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C120	ECCD1H040C	4pF 50WV +80, -20% Ceramic	1	C			
C121	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C122	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C123	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C124	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C125	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C126	ECCD1H100F	10pF 50WV ±1pF Ceramic	1	C			
C201	ECCD1H330K	33pF 50WV ±10% Ceramic	1	C			
C202	ECKD1H102MD	0.001mfd 50WV ±10% Ceramic	1	C			
C205	ECCD1H560K	56pF 50WV ±10% Ceramic	1	C			
C210	ECCD1H180K	180pF 50WV ±10% Ceramic	1	C			
C211	ECQS1151JZ	150pF 100WV ±5% Styrol	1	C			
C212	ECQS1241JZ	240pF 100WV ±5% Styrol	1	C			
C213	ECCD1H150K	15pF 50WV ±10% Ceramic	1	C			
C214	ECKD1H223MD	0.022mfd 50WV ±20% Ceramic	1	C			
C218	ECKD1H103MD	0.01mfd 50WV ±20% Ceramic	1	C			
C220	ECEA16V220	220mfd 16WV Electrolytic	1	B			
C222	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C223	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C224	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C225	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C226	ECKD1H103MD	0.01mfd 50WV ±20% Ceramic	1	C			
C227	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C228	ECKD1H103MD	0.01mfd 50WV ±20% Ceramic	1	C			
C229	ECKD1H223MD	0.022mfd 50WV ±20% Ceramic	1	C			
C230	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C231	ECAG16ER1	0.1mfd 16WV Electrolytic	1	B			
C232	ECEA25V4R7	4.7mfd 25WV Electrolytic	1	B			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
C233	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C234	ECQS1152JZ	1500pF 50WV ±5% Styrol	1	C			
C235	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C236	ECEAG16ER47	0.47mfd 16WV Electrolytic	1	C			
C237	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C239	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C240	ECKD1H472MD	0.0047mfd 50WV ±20% Ceramic	1	C			
C241	ECQS1361JZ	360pF 100WV ±5% Styrol	1	C			
C242	ECEA16V10	10mfd 16WV Electrolytic	1	C			
C260	ECCD1H101K	100pF 50WV ±10% Ceramic	1	C			
C301	ECEA16V470	470mfd 16WV Electrolytic	1	B			
C302	ECEA16V33	33mfd 16WV Electrolytic	1	B			
C303	ECEA25V3R3	3.3mfd 25WV Electrolytic	1	B			
C304	ECEA16V33	33mfd 16WV Electrolytic	1	B			
C305	ECQM05153MZ	0.015mfd 50WV ±20% Polyester	1	C			
C306	ECQM05153MZ	0.015mfd 50WV ±20% Polyester	1	C			
C307	ECAG16ER68	0.68mfd 16WV Electrolytic	1	B			
C308	ECAG16ER68	0.68mfd 16WV Electrolytic	1	B			
C309	ECQM1H332MZ	0.0033mfd 125WV ±20% Polyester	1	C			
C310	ECQM1H332MZ	0.0033mfd 125WV ±20% Polyester	1	C			
C320	ECQM1H223MZ	0.022mfd 125WV ±20% Polyester	1	C			
C401	ECQM1H152MZ	0.0015mfd 125WV ±20% Polyester	1	C			
C402	ECQM1H152MZ	0.0015mfd 125WV ±20% Polyester	1	C			
C403	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C404	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C405	ECEA25V4R7G	4.7mfd 25WV Electrolytic	1	B			
C406	ECEA25V4R7G	4.7mfd 25WV Electrolytic	1	B			
C407	ECCD1H560K	56pF 50WV ±10% Ceramic	1	C			
C408	ECCD1H560K	56pF 50WV ±10% Ceramic	1	C			
C409	ECQM1H333MZ	0.033mfd 125WV ±20% Polyester	1	C			
C410	ECQM1H333MZ	0.033mfd 125WV ±20% Polyester	1	C			
C411	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C412	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C413	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C414	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C415	ECES50V1	1mfd 50WV Electrolytic	1	B			
C416	ECES50V1	1mfd 50WV Electrolytic	1	B			
C417	ECES50V1	1mfd 50WV Electrolytic	1	B			
C418	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C419	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C420	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C421	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C422	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C423	ECQM1H332MZ	0.0033mfd 125WV ±20% Polyester	1	C			
C424	ECQM1H332MZ	0.0033mfd 125WV ±20% Polyester	1	C			
C425	ECQS1152JZ	1500pF 100W ±5% Styrol	1	C			
C426	ECQS1152JZ	1500pF 100W ±5% Styrol	1	C			
C427	ECQM1H102MZ	0.001mfd 125WV ±20% Polyester	1	C			
C428	ECQM1H102MZ	0.001mfd 125WV ±20% Polyester	1	C			
C429	ECEA16V47	47mfd 16WV Electrolytic	1	C			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
C430	ECEA16V47	47mfd 16WV Electrolytic	1	C			
C431	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C432	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C433	ECAG16ER22	0.22mfd 16WV Electrolytic	1	B			
C434	ECAG16ER22	0.22mfd 16WV Electrolytic	1	B			
C435	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C436	ECEA16V100	100mfd 16WV Electrolytic	1	B			
C437	ECEA10V1000	1000mfd 16WV Electrolytic	1	B			
C441	ECQM1H683MZ	0.068mfd 125WV ±20% Polyester	1	C			
C442	ECQM1H683MZ	0.068mfd 125WV ±20% Polyester	1	C			
C461	ECCD1H101K	100pF 50WV ±10% Ceramic	1	C			
C462	ECCD1H101K	100pF 50WV ±10% Ceramic	1	C			
C463	ECEA16V47	47mfd 16WV Electrolytic	1	C			
C464	ECEA16V47	47mfd 16WV Electrolytic	1	C			
C465	ECCD1H180K	18pF 50WV ±10% Ceramic	1	C			
C466	ECCD1H180K	18pF 50WV ±10% Ceramic	1	C			
C467	ECEB6V33	33mfd 6WV Electrolytic	1	B			
C468	ECEB6V33	33mfd 6WV Electrolytic	1	B			
C469	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C470	ECEA16V10	10mfd 16WV Electrolytic	1	B			
C471	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C472	ECEB50V1	1mfd 50WV Electrolytic	1	B			
C473	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C474	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C475	ECEA16V220	220mfd 16WV Electrolytic	1	C			
C476	ECEA16V220	220mfd 16WV Electrolytic	1	C			
C501	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C502	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C503	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C504	ECEA50V1	1mfd 50WV Electrolytic	1	B			
C505	ECQM1H104MZ	0.1mfd 125WV ±20% Polyester	1	C			
C506	ECQM1H104MZ	0.1mfd 125WV ±20% Polyester	1	C			
C507	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C508	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C509	ECEB16V220	220mfd 16WV Electrolytic	1	B			
C601	ECQM1H683MZ	0.068mfd 125WV ±20% Polyester	1	C			
C602	ECQM1H683MZ	0.068mfd 125WV ±20% Polyester	1	C			
C603	ECQM1H682MZ	0.0068mfd 125WV ±20% Polyester	1	C			
C604	ECQM1H682MZ	0.0068mfd 125WV ±20% Polyester	1	C			
C605	ECAG16ER1	0.1mfd 16WV Electrolytic	1	B			
C606	ECAG16ER1	0.1mfd 16WV Electrolytic	1	B			
C607	ECEB50V1	1mfd 50WV Electrolytic	1	B			
C608	ECEB50V1	1mfd 50WV Electrolytic	1	B			
C609	ECEA50M1	1mfd 50WV Electrolytic	1	B			
C610	ECEA50M1	1mfd 50WV Electrolytic	1	B			
C611	ECQM1H682MZ	0.0068mfd 125WV ±20% Polyester	1	C			
C612	ECQM1H682MZ	0.0068mfd 125WV ±20% Polyester	1	C			
C613	ECEA16V100	100mfd 16WV Electrolytic	1	C			
C651	ECEA16V47	47mfd 16WV Electrolytic	1	B			
C652	ECEA16V47	47mfd 16WV Electrolytic	1	B			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
C653	ECKD1H102PF	0.001mfd 50WV +100, -0% Ceramic	1	C			
C654	ECKD1H102PF	0.001mfd 50WV +100, -0% Ceramic	1	C			
C655	ECQM1H333MZ	0.033mfd 125WV ±20% Polyester	1	C			
C656	ECQM1H333MZ	0.033mfd 125WV ±20% Polyester	1	C			
C657	ECQM1H103MZ	0.01mfd 125WV ±20% Polyester	1	C			
C658	ECQM1H103MZ	0.01mfd 125WV ±20% Polyester	1	C			
C659	ECCD1H560K	56pF 50WV ±10% Ceramic	1	C			
C660	ECCD1H560K	56pF 50WV ±10% Ceramic	1	C			
C661	ECEA16V33	33mfd 16WV Electrolytic	1	B			
C662	ECEA16V33	33mfd 16WV Electrolytic	1	B			
C663	ECEA50V3R3	3.3mfd 50WV Electrolytic	1	B			
C664	ECEA50V3R3	3.3mfd 50WV Electrolytic	1	B			
C664	ECEA50V3R3	3.3mfd 50WV Electrolytic	1	B			
C665	ECEA16V220	220mfd 16WV Electrolytic	1	B			
C666	ECEA16V220	220mfd 16WV Electrolytic	1	B			
C701	ECEAG16E1Y	1mfd 16WV Electrolytic	1	B			
C702	ECEAG16E1Y	1mfd 16WV Electrolytic	1	B			
C703	ECEA16V47	47mfd 16WV Electrolytic	1	B			
C704	ECEA16V47	47mfd 16WV Electrolytic	1	B			
C705	ECQM1H104MZ	0.1mfd 125WV ±20% Polyester	1	C			
C706	ECQM1H104MZ	0.1mfd 125WV ±20% Polyester	1	C			
C707	ECQM1H563MZ	0.056mfd 125WV ±20% Polyester	1	C			
C708	ECQM1H563MZ	0.056mfd 125WV ±20% Polyester	1	C			
C709	ECEA16V100	100mfd 16WV Electrolytic	1	B			
C710	ECEB16V1000	1000mfd 16WV Electrolytic	1	B			
C711	ECQM1H473MZ	0.047mfd 125WV ±20% Polyester	1	C			
C712	ECQM1H473MZ	0.047mfd 125WV ±20% Polyester	1	C			
C713	ECEB16V1000	1000mfd 16WV Electrolytic	1	B			
C714	ECEB16V2200	2200mfd 16WV Electrolytic	1	C			
C715	ECEB50V1	1mfd 50WV Electrolytic	1	B			
C716	ECEB50V1	1mfd 50WV Electrolytic	1	B			
C717	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C718	ECKD1H102MD	0.001mfd 50WV ±20% Ceramic	1	C			
C719	ECCD1H221K	220pF 50WV ±10% Ceramic	1	C			
C851	ECCD1H181K	180pF 50WV ±20% Ceramic	1	C			
C852	ECCD1H181K	180pF 50WV ±10% Ceramic	1	C			
C854	ECAG16ER1	0.1mfd 16WV Electrolytic	1	B			
C855	ECAG16ER1	0.1mfd 16WV Electrolytic	1	B			
C856	ECQS1182JZ	1800pF 100WV ±5% Styrol	1	C			
C857	ECQM1H104MZ	0.1mfd 125WV ±20% Polyester	1	C			
C858	ECQM1H333MZ	0.033mfd 125WV ±20% Polyester	1	C			
C859	ECEA16V220	220mfd 16WV Electrolytic	1	B			
C860	ECEA16V220	220mfd 16WV Electrolytic	1	B			
C861	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
C901	ECQM1H474MZ	0.47mfd 125WV ±20% Polyester	1	C			
C902	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C903	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C904	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C905	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C906	ECEB16V2200	2200mfd 16WV Electrolytic	1	B			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
C907	ECEB16V2200	2200mfd 16WV Electrolytic	1	B			
C908	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C909	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C910	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C911	ECKD1H103ZFZ	0.01mfd 50WV +80, -20% Ceramic	1	C			
C912	ECET16R3300	3300mfd 16WV Electrolytic	1	B			
C913	ECEA10V100	100mfd 10WV Electrolytic	1	C			
C915	ECEA16V470	470mfd 16WV Electrolytic	1	C			
C917	ECKD1H223ZFZ	0.022mfd 50WV +80, -20% Ceramic	1	C			
VARIABLE RESISTORS							
VR301,302,408	EVLS3AA00B14	Separation Control and others, Semi-fixed V.R., 10k	3	B			
VR601~604	EWFNIAK30A54	Bass and Treble Control, 50kΩ	2	A			
VR605,606	EWFNIAK30B54	Volume Control, 50kΩ	1	A			
VR607	EVE2DAK30G15	Balance Control, 100kΩ	1	A			
VR701	EVLS3AA00B52	Gain Control, Semi-fixed V.R. 500 ohm	1	A			
VR851	EVLS3AA00B13	AC Bias Oscillator, Semi-fixed V.R. 1k	1	A			
VARIABLE CAPACITORS							
CV101~103, 201,202	ECV5MD34X53G	Tuning Capacitor	1	A			
CT103	ECV1ZW10X32	Trimmer Capacitor	1	A			
CT201~204	SCV2T10S	Trimmer Capacitor	2	A			
SWITCHES							
S1	ESB1140DD27	Push Switch, Power	1	A			
S2	SSR6	Switch, Power Voltage	1	B			
S3, S6	SSH204	Push Switch, Speaker Selector and Tape Monitor	1	A			
S4	—	Refer to Ref. No. 26 on page 22.	1	A			
S5	—	Refer to Ref. No. 68 on page 21.	1	A			
S7	SSH50	Push Switch, Tape Selector	1	A			
S8	—	Refer to Ref. No. 49 on page 22.	1	A			
S9	—	Refer to Ref. No. 94 on page 21.	1	A			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
ST1~9	SSH36	Slide Switch, R/P	1	A			
SB1~8	SSR62K	Rotary Switch, Band	1	A			
SF1~4	ESRJ234K30AE	Rotary Switch, Function	1	A			
ACCESSORIES							
A1	SQX5774	Instruction Book, For HO	1				
A1	SQX5754	Instruction Book, For GF, GF-2, HO ÖVE and Others	1	○C			
	SQX5756	Instruction Book, For FIN, DEM, SEM and NEM	1	○C			
A2	QFT6TCJNAQZ	Demonstration Tape	1	C			
A3	WN2201N	Microphone	1	C			
A4	WN133	Microphone Stand	1	C			
A5	SQX9536	Notice For NEM	1	○C			
PACKING							
PA1	SPN2516	Carton	1	○C			
PA2	SPN2130	Pad	1	C			
PA3	SPN2134	Pad, Upper	2	C			
PA4	SPN2136-1	Pad, Bottom	2	C			
PA5	SPH6026	Soft Cover	1	C			
PA6	SNE206	Screw, Turntable Transit	2	C			
PA7	SNW601	Washer, Turntable Transit	2	C			
PA8	SJY5030	Spacer, Turntable Transit	4	C			
CHASSIS							
CH1	SDT1302K-2	Tuning Shaft	1	C			
CH2	RDY36	Shaft, Pulley	3	C			
CH3	RDY32	Shaft, Pulley	2	C			
CH4	RDR23	Pulley, Dial	4	C			
CH5	RDR20	Pulley, Dial	2	C			
CH6	RNW150-2	Washer, Pulley	5	C			
CH7	SDD39-2S	Drum, Dial	1	C			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
CH8	RDS309	Spring, Dial	1	C			
CH9	RDZ05A	Cord, Dial	160 cm	C			
CH10	SHG958	Cushion, Lamp	2	C			
CH11	RHG3-1	Cushion, F ANT	1	C			
CH12	SMX88-1	Cover, Power Switch	1	C			
CH13	SDP174	Dial Pointer Assembly	1	○A			
CH14	SMN686-3	Rear Panel	1	○C			
CH15	SMX86	Cover, Primary Lead	1	C			
CH16	SUS116	Spring, Lead Holder	1	C			
CH17	SUD96	Spacer, Microphone Jack	1	C			
CH18	RHG6	Cushion, Tuning Capacitor	2	C			
CH19	SUD122	Spacer, Socket	2	C			
CH20	SHR134	Strain Relief	2	C			
CH21	SXE98	Eject Mechanism Assembly	1	C			
CH22	SJA46	Power Cord (SEM, FIN, DEM, HO) SAFETY	1	B			
	SJA68	Power Cord (SEV) SAFETY	1	B			
	SJA88	Power Cord (GF, GF-2, ÖVE) SAFETY	1	B			
CH24	SJJ43	Jack, Headphone	1	C			
CH25	RJJ78	Jack, Microphone	2	C			
CH26	SNE420	Nut, Microphone Jack	2	C			
CH27	SJF104	Fuse Holder, 1P	1	B			
CH28	RJF7A	Fuse Holder	6	B			
CH29	SJS9202-1	Terminal, FM ANT, DIN	1	C			
CH30	SJS9206-1	Terminal, AM ANT, DIN	1	C			
CH31	SJS6502	Socket, AUX DIN	2	C			
CH32	SJS9208	Socket, SPKR DIN	4	C			
CH33	SJR606	Terminal Board	1	C			
CH34	SWK156	Connector Assembly, 6P (MC-2)	1	○C			
CH35	SWK98	Connector Assembly, 3P (MC-1)	1	C			
CH36	SWK158	Connector Assembly, 3P (MC-3)	1	○C			
CH37	SJR502	Terminal Board, 5P	1	C			
CH38	SUS180	Spring, Eject	1	C			
CH39	XYN26+C8	Screw 2.6 mm × 8, Cassette Panel Mounting	2	C			
CH40	XTV3+10B	Screw 3 mm × 10, Bottom Cover Mounting	5	C			
CH41	XTW3+10B	Screw 3mm × 10, Bottom Cover and Board Mounting	8	C			
CH42	XTV3+8B	Screw 3 mm × 8, Cassette and Player Mounting	7	C			
CH43	SMC6046-1	Shielded Paper	1	○C			
CABINET							
CA1	SYK1456	Cabinet Assembly	1	○A			
CA2	SBL34	Hinge	2	B			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
CA3	SKW122	Holder, Hinge	2	C			
CA4	SBC190	Button, Reset	1	C			
CA5	SUW932-1	Bracket, Reset Button	1	C			
CA6	SYU244-3	Bottom Board Assembly	1	B			
CA7	SYK1458	Bottom Cover Assembly	1	B			
CA8	SHS3018	Felt, Foot	4	C			
CA9	SYE354	Dust Cover Assembly	1	A			
CA10	SXE104	Hook Assembly	1	C			
CA11	SYE450	Cassette Lid Assembly	1	A			
CA12	SBN694K	Knob, Tuning	1	○A			
CA13	SBN696K	Knob, Volume, Balance, Function and Others	6	○A			
CA14	SBC148-1	Button, Power	1	B			
CA15	SBC150	Button	2	B			
CA16	SBC156	Button	1	B			
CA17	SGN2720	Name Plate	1	○C			
CA18	SUD102	Bracket, Hinge	2	C			
CA19	SUD104	Spacer B, Hinge	2	C			
CA20	SUD106-1	Spacer C, Hinge	4	C			
SPEAKER SYSTEM (SB-250L(B)) FOR MESE							
	SKA1502	Speaker Enclosure (Black)	2	A			
	SYB166	Baffle Board Ass'y	2	A			
	SKU2120	Rear Board	2	A			
	SGN2600	Name Plate	2	B			
	RGB159A	Badge	2	B			
	SJP2206	Speaker Cord	2	A			
	EAS20PL116SA	Woofer, 20 cm, 4 ohm	2	A			
	EAS5PH15SC	Tweeter, 5 cm, 8 ohm	2	A			
	ECEA25Y3R3	Electrolytic Capacitor 3.3mfd	2	B			
	SJR202	Terminal Strip	2	C			
	SPG1724	Carton	2	C			
	SPN2346	Pad	2	C			
RECORD PLAYER SP-501F							
1	SJY50	Player Board Assembly	1	○C			
	SJY1004	Player Board	1	○C			
	SQX9422	Label, Cueing	1	C			
	SUW1148	Bracket A	2	○C			
	SUW1150	Bracket B	1	○C			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
2	SJY42	Tone Arm Rest Assembly	1	○C			
3	SJY5026	Lifter	1	○C			
4	SJY46	Cut Knob Assembly	1	○C			
5	SJY38	Turntable Mat Assembly	1	A			
6	SJY3006	Turntable	1	○A			
7	MHN-5P2RDA	Motor	1	○A			
8	SHG9092	Rubber Cushion	3	○C			
9	SUD130	Spacer	3	○C			
16	SJY44	Turntable Shaft Assembly	1	○C			
17	SJY9034-1	Main Gear Shaft	1	C			
19	SJY32	Main Gear Assembly	1	B			
20	SJY6	Operating Plate Assembly	1	C			
21	SJY9144	Capstan with Screw (XXA2D3FR)	1	B			
22	SJY9016-1	Switch Lever	1	C			
23	SFUM623-4E	Plate, Tone Arm	1	C			
24	SJY9042	Actuating Link	1	C			
25	SJY9044	Switch Control Plate	1	C			
26	SJY9046	Switch Control Bracket, Cueing Bracket	2	C			
27	SJY9048	Stopper, Lift	1	C			
28	SNE424	Holder, Stopper	1	C			
29	SFUM623-2	Collar, Operating Plate	1	C			
30	SJY9052	Feed Link	1	C			
31	SJY9054	Cut Lever	1	C			
32	SJY9028	Spring	4	C			
35	SJY9056	Spring, Tone Arm Plate	1	C			
36	SJY9058	Spring A, Lift	1	C			
37	SJY9060-1	Spring B, Lift	1	C			
38	SJY9062	Spring, Operating Plate	1	C			
39	SJY9064	Spring, Feed Link	1	C			
45	SNW622-2	Washer 6φ	1	C			
46	XUC3	Circlip 3φ	1	C			
48	XUC5	Circlip 5φ	2	C			
49	SNE428	Push Nut	2	C			
52	XSN3+6S	Screw 3×6 mm	2	C			
53	XTV23+6B	Screw 2.3×6 mm	1	C			
54	XTV3+8B	Screw 3×8 mm	7	C			
55	XTV3+18B	Screw 3×18 mm	1	C			
56	XNG3B	Nut 3 m/m	2	C			
57	XNG4B	Nut 4 m/m	1	C			
58	XWE3D6	Washer	4	C			
59	XWE3D8	Washer	1	C			
60	XWE3E16	Washer	1	C			
62	XWE23D6	Washer	1	C			
63	XWA3B	Washer	2	C			
64	XWA4B	Washer	1	C			
65	VF3B20S	Screw, Tone Arm Plate	1	C			
66	SJT202	Lug	1	C			
67	SPU18	Tone Arm	1	○A			
	EPC78SMAD	Cartridge, Ceramic	1	○A			
	EPS34STSD	Stylus, Diamond	1	○A			

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			
68	AM9688	Micro Switch (S5)	1	A			
70	SWK170	PU Plug Assembly	1	○B			
71	ECEA50V1	1mfd 50WV	1	A			
72	EVN31A00B24	Semi-fixed Resistor	2	B			
73	SWK172	Connector	1	B			
74	SJY9100	Trim, Turntable Mat	1	A			
78	SHG916	Rubber Cushion	1	C			
83	SJY36	Cueing Lever Assembly	1	B			
84	SJY9120	Spring Plate, Cueing Lever	1	○C			
85	XXAR3P6	Screw, Stopper	1	C			
86	SQX9550	Label, Stylus	1	○C			
87	SJY5018	45 RPM Adaptor	2	B			
88	SHG638	Felt, Cueing Lever	1	○C			
89	SJY52	Head Shell Assembly	1	B			
91	SJY9116	Belt	1	○A			
92	SJY9118	Gear, Sub	1	○B			
93	SJY9072	Plate Spring	1	○C			
94	SSL12	Lever Switch, Speed Selector (S9)	1	○A			
95	FE-EGA462	PC Board Assembly, Governor Circuit	1	○B			
99	SJY9110	Shaft, Lifter	1	○C			
100	XYN3+C10	Screw, 3 mm×10 TT Shaft Mounting	4	C			
101	XTV3+10B	Screw, 3 mm×10 Motor PCB Mounting	3	C			
102	XTN23+5B	Screw, 2.3 mm×5 Lifter	1	C			
103	XSN26+8	Screw, 2.6 mm×8 Motor Mounting	3	C			
104	XWE26D8	Washer, Motor Mounting	3	C			
105	XWA26B	Spring Washer, Motor Mounting	3	C			
107	XTN23+5B	Screw, Head Shell Mounting	1	C			
108	XXHS26-C8AV	Screw, Cartridge Mounting	2	○C			
109	XWE13A	Washer, Tone Arm Mounting	1	C			
110	XNG13B	Nut, Tone Arm Mounting	1	C			
111	SHE36-1	Lead Holder	2	C			
112	RHG3-1	Cushion, Lead Clamp	1	C			
113	SNW272	Washer, Cartridge Mounting	2	○C			
114	SNE442	Nut, Cartridge Mounting	2	○C			

CASSETTE TAPE DECK (SJD72)							
1	SYE434	Push Button	6	○B			
2	SYE436	Push Button, REC	1	○B			
3	SMQ1232	Lever, REC Safety	1	C			
4	SMQ662	Spring, REC Safety Lever	1	B			
5	SNE432	Circlip, REC Safety Lever	1	B			
6	SJH30	R/P Head	1	A			
7	SJH14	Erase Head	1	A			

REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks			Ref. No.	Part No.	Description	Per Set (pcs.)	Remarks		
8	SMQ678	Spring, R/P Head and Flywheel Retainer	2	B			61	SMQ1444	Spring B, Head Panel	1	B		
9	SMQ1360	Spring A, Head Panel	2	B			62	SMQ242	Spring Plate, REC Switch	1	B		
10	SMQ1362-1	Base Assembly, Head	1	○C			63	SMQ1580	Push Button Frame Assembly	1	C		
11	SMQ1388	Eject Stop Lever w/Spring	1	C			100	XYN2+C5	Screw 2 mm × 5	3	C		
12	SMQ1390	Lever Assembly, Auto-Stop	1	C			101	XSN2+5	Screw 2 mm × 5, Amp. Switch	1	C		
13	SMQ1392	Spacer, Auto-Stop Lever	1	C			102	XSS2+5	Screw 2 mm × 5	1	C		
14	SMQ1364	Pressure Roller Assembly	1	A			103	XSN2+10	Screw 2 mm × 10	3	C		
15	SMQ1366	Spring, Pressure Roller	1	B			104	XYN26+5	Screw 2.6 mm × 5	5	C		
16	SMQ1626	Reel Table	2	○B			105	XSN26+6	Screw 2.6 mm × 6	5	C		
17	SMQ1544	Tape Counter	1	B			106	XSB26+4	Screw 2.6 mm × 4, Head Panel	1	C		
18	SMQ1588	Belt, Counter	1	A			107	XSB26+6	Screw 2.6 mm × 6, Head Panel	1	C		
19	SMQ1354	Brake Arm	1	C			108	XSN26+10	Screw 2.6 mm × 10	1	C		
20	SMQ1358	Spring, Brake Arm	1	B			109	XSS3+5S	Screw 3 mm × 5, Counter Mounting	2	C		
21	SMQ1394	Spring, Tape Holder	1	B			111	XSN2D6	Screw 2 mm × 6	1	C		
22	MHT5PS	DC Motor	1	A			112	XWE2A6	Washer 2φ	3	C		
23	SMQ1384	Motor Pulley w/Screw (XXA2A-3)	1	B			113	XWE26D7	Washer 2.6φ, 0.5t	4	C		
24	SMQ716	Rubber Cushion, Motor	3	C			114	XWE26E10	Washer 2.6φ	1	C		
25	SMQ718	Spacer, Motor	3	C			115	XYN26+C6	Screw 2.6 mm × 6, Play Lever	1	C		
26	SMQ1378	Leaf Switch, Motor ON-OFF (S4) SAFETY	1	A			150	XUC12FT	Circlip 1.2φ	2	C		
27	SMQ1396	Lever, Eject slide, w/Spring	1	C			151	XUC15FT	Circlip 1.5φ	4	C		
28	SMQ1374	Spacer A, Eject Slide Lever	1	C			152	XUCS19	Circlip 1.9φ	1	C		
29	SMQ1398	Spacer B, Eject Slide Lever	1	C			153	XUC2FT	Circlip 2φ	2	C		
30	SMQ1368	Clutch Assembly w/Spring	1	C			155	XUC25FT	Circlip 2.5φ	1	C		
31	SMQ1370-1	Bearing, Flywheel	1	C			156	XUC32FT	Circlip 3.2φ	1	C		
33	SMQ148	Washer, Oil Thrower	2	C			157	XUC4FT	Circlip 4φ	2	C		
34	SMQ1402	Nylon Washer	1	C			158	XNG2	Nut 2φ	1	C		
35	SMQ686	Flywheel	1	B									
36	SMQ1372	Belt, main	1	A									
37	SMQ1404	Retainer, Flywheel	1	C									
38	SMQ1382-1	FF Arm Assembly w/Spring	1	C									
39	SMQ1406	Operation Plate, Brake	1	C									
40	SMQ1408	Rewind Arm w/Spring	1	C									
41	SMQ1386	Rewind Idler	1	C									
42	SMQ1410	Pause Lever	1	C									
43	SMQ1412	Spacer, Pause Lever	1	C									
44	SMQ1414	Pause Slide Lever A w/Spring	1	C									
45	SMQ1416	Pause Slide Lever B	1	C									
46	SMQ1376	Pause Click Lever	1	C									
47	SMQ1418	Spring, Pause Click Lever	1	B									
48	SMQ1528	Bracket, Armp. Switch	1	C									
49	SMQ1380	Leaf Switch, Tape Amp. ON-OFF (S8)	1	A									
50	SMQ1422	Lever, REC Slide	1	C									
52	SMQ1426	Spacer, REC Slide Lever	1	C									
53	SMQ1428	Shaft, FF and Rewind Lever	1	C									
54	SMQ1430	Rewind Lever	1	C									
55	SMQ1432	FF Lever	1	C									
56	SMQ1434	Nylon Washer 6.1φ	1	C									
57	SMQ1436-1	Lever, Auto-Stop Drive	1	C									
58	SMQ1438	Spacer, Auto-Stop Lever	1	C									
59	SMQ1530	Play Lever	1	C									
60	SMQ1524	Spacer, Play Lever	1	C									